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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONCIDIO	
10/690,501	10/23/2003	Takahiro Mabuchi	2927-0157P	CONFIRMATION NO.	
2292 759	1170 172004		EXAMINER		
BIRCH STEWART KOLASCH & BIRCH PO BOX 747			CHEUNG, WILLIAM K		
FALLS CHURC	CH, VA 22040-0747		ART UNIT PAPER NUMBER		
			1713		

DATE MAILED: 11/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action 0	10/690,501	MABUCHI ET AL.	
Office Action Summary	Examiner	Art Unit	
	William K Cheung	1713	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a resply within the statutory minimum of thirty will apply and will expire SIX (6) MON	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communica	tion.
Status			
1) Responsive to communication(s) filed on 25	August 2004		
	is action is non-final.		
3) Since this application is in condition for allows	ance except for formal		
closed in accordance with the practice under	Ex parte Quavio, 1025 C.D.	ers, prosecution as to the merits	is
Disposition of Claims	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
		•	
4) Claim(s) <u>1-15</u> is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) ☐ Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-8 and 11-15</u> is/are rejected.			
7) Claim(s) <u>9 and 10</u> is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			*
9) The specification is objected to by the Examine	O#		
10) The drawing(s) filed on is/are: a) acc	ontodor bill abia () (
Applicant may not request that any objection to the	ehred or p)[_] oplected to b)	the Examiner.	
Replacement drawing sheet(s) including the correct	tion in required if the state of the	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	vaminar. Note the attack of	is objected to. See 37 CFR 1.121(d).
	variable. Note the attached (Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		19(a)-(d) or (f).	
1. ☐ Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents	s have been received in App	lication No	
S. Copies of the certified copies of the prior	rity documents have been re	ceived in this National Stage	
application from the international Bureau	ا (PCT Rule 17 2(a))		
* See the attached detailed Office action for a list	of the certified copies not red	ceived.	
uttachment(s)			
Notice of References Cited (PTO-892)	4.□ .		
) Notice of Draftsperson's Patent Drawing Review (PTO-048)	4) Interview Sum Paper No(s)/M	mary (PTO-413) ail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1023.	5) U Notice of Infor	mal Patent Application (PTO-152)	
Patent and Trademark Office	6) Other:		
OL-326 (Rev. 1.04)	ion Summary	Part of Paner No /Mail Date 10280	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

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- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-8, 13-15 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hiroshi et al. (JP 8-334939).

The invention of claims 1-8, 13-15 relates to an elastomer composition containing a rubber or/and a thermoplastic elastomer as a main component thereof and a reinforcing filler dispersed in said rubber or/and said thermoplastic elastomer, wherein a T2 relaxation time (spin-spin relaxation) of a bound rubber formed in a portion which is disposed in close vicinity to said rubber or/and said thermoplastic elastomer and said reinforcing filler and includes an interface there between is set to not less than 250 μ s nor more than 400 μ s.

Hiroshi et al. (Abstract; Page 8, Table) disclose EPDM rubber compositions comprising carbon black as a filler and an organic peroxide. Further, Hiroshi et al. (page 8, Table 2) clearly disclose that the disclosed compositions have JIS A hardness values of 27. Therefore, in view of the substantially identical composition and the substantially identical JIS A hardness values, the examiner has a reasonable basis to believe that the claimed "T2 relaxation time (spin-spin relaxation) of a bound rubber formed in a portion which is disposed in close vicinity to said rubber or/and said thermoplastic elastomer and said reinforcing filler and includes an interface there between is set to not less than 250 μ s nor more than 400 μ s", and that "the bound rubber is subjected to influence of a molecular motion generated by an interaction between the rubber or/and said

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thermoplastic elastomer and said reinforcing filler in said portion that is disposed in close vicinity to said rubber or/and said thermoplastic elastomer and said reinforcing filler and includes said interface therebetween" are inherently possessed in Hiroshi et al. Since the PTO does not have proper means to conduct experiments, the burden of proof is now shifted to applicants to show otherwise. In re Best, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977); In re Fitzgerald, 205 USPQ 594 (CCPA 1980).

Regarding claim 15 which claims using the claimed rubber roller as a roller for paper-feeding roller or a film-feeding roller, applicants must recognize that a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See In re Casey, 152 USPQ 235 (CCPA 1967) and In re Otto, 136 USPQ 458, 459 (CCPA 1963).

4. Claims 1-2, 5-8, 13-15 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kazuhisa et al. (JP 2000-248133).

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Hiroshi et al. (Abstract; col. 7-8, Table 5) disclose EPDM rubber compositions comprising carbon black as a filler and an organic peroxide. Therefore, in view of the substantially identical composition, the examiner has a reasonable basis to believe that the claimed "T2 relaxation time (spin-spin relaxation) of a bound rubber formed in a portion which is disposed in close vicinity to said rubber or/and said thermoplastic elastomer and said reinforcing filler and includes an interface there between is set to not less than 250 μ s nor more than 400 μ s", and that "the bound rubber is subjected to influence of a molecular motion generated by an interaction between the rubber or/and said thermoplastic elastomer and said reinforcing filler in said portion that is disposed in close vicinity to said rubber or/and said thermoplastic elastomer and said reinforcing filler and includes said interface therebetween" are inherently possessed in Hiroshi et al. Since the PTO does not have proper means to conduct experiments, the burden of proof is now shifted to applicants to show otherwise. In re Best, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977); In re Fitzgerald, 205 USPQ 594 (CCPA 1980).

Regarding claim 15 which claims using the rubber roller as a roller for paper-feeding roller or a film-feeding roller, applicants must recognize that a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See

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In re Casey, 152 USPQ 235 (CCPA 1967) and In re Otto, 136 USPQ 458, 459 (CCPA 1963).

5. Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuhisa et al. (JP 2000-248133).

Set forth from paragraph 4 of instant office action, the compositions of claims 11-12 are very similar to the compositions of Kazuhisa et al.

The difference between the invention of claims 11-12 and Kazuhisa et al. is that Kazuhisa et al. are silent that the reinforcing filler is not less than 150% nor more than 300%.

However, Kazuhisa et al. (col. 7-8, Table 5) clearly indicates that the amount of carbon black used in the disclosed EPDM composition is a result effective variable for hardness (JIS-A). Therefore, motivated by the expectation of success of further optimizing the hardness properties of the disclosed composition for use in rubber roller application, it would have been obvious to one of ordinary skill in art to use routine optimization techniques to optimize that amount of carbon black of the composition teachings in Kazuhisa to obtain the invention of claims 11-12.

Allowable Subject Matter

Claims 9-10 are objected to as being dependent upon a rejected base claim, but 6. would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 9-10 are allowable because the closest prior art are silent on the claimed amount of carbon black in the claims, and that applicants' specification (page 21, Table 1) clearly indicates the criticality of the claimed amount of carbon black in claims 9-10 for reducing stain on paper during the supply of paper.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William K Cheung whose telephone number is (571) 272-1097. The examiner can normally be reached on Monday-Friday 9:00AM to 2:00PM; 4:00PM to 8:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David WU can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William K. Cheung

Primary Examiner

WILLIAM K. CHEUNG PRIMARY EXAMINER

October 29, 2004